







CATALYST AND METHODS FOR POLYMERIZING CYCLOOLEFINS

Patent number: WO0020472
Publication date: 2000-04-13
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Classification:
- international: **C08F32/00; C08F32/08; C08F32/00; (IPC1-7): C08F32/08; C08F4/70**
- european: C08F32/00; C08F32/08
Application number: WO1999US23243 19991005
Priority number(s): US19980103120P 19981005; US19980111590P 19981209

Also published as:

 EP1034196 (A1)
 EP1034196 (B1)
 DE69923156T (T2)

Cited documents:

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 WO9733198
 WO9514048
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Abstract of WO0020472

Methods for the addition polymerization of cycloolefins using a cationic Group 10 metal complex and a weakly coordinating anion of the formula: $[(R')zM(L')x(L'')y]b [WCA]d$ wherein $[(R')zM(L')x(L'')y]$ is a cation complex where M represents a Group 10 transition metal; R' represents an anionic hydrocarbyl containing ligand; L' represents a Group 15 neutral electron donor ligand; L'' represents a labile neutral electron donor ligand; x is 1 or 2; and y is 0, 1, 2, or 3; and z is 0 or 1, wherein the sum of x, y, and z is 4; and [WCA] represents a weakly coordinating counteranion complex; and b and d are numbers representing the number of times the cation complex and weakly coordinating counteranion complex are taken to balance the electronic charge on the overall catalyst complex.

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